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# As a halovy named inventor. I haraby declare that

As a below named inventor, I hereby declare that:

This declaration is of the following type:

[X] original[] divisional[] continuation[] continuation-in-part

#### INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

#### TITLE OF INVENTION

# PATTERN GENERATION METHOD AND APPARATUS USING CACHED CELLS OF HIERARCHICAL DATA

#### SPECIFICATION IDENTIFICATION

The specification of which:

[X]	is attached hereto	
[]	was filed on	, under Serial No. (unknown), executed on
	even date herewith; or	
	[ ] Express Mail No.	(as Serial No. not yet known)
	and was amended on	(if applicable)
[]	was described and claimed in PCT	International Application No
	filed on	and as amended under PCT Article 19 on

# ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

[X] In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

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# PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

<b>A.</b> Cour		foreign/l cation, ar	pplications have be PCT application(s nd any priority clai	filed within 1 ms under 35 U.S	2 mos. (6 mos. f	or design) prior to this
	applic	cation, ar	nd any priority clai	ms under 35 U.S		or design) prior to this
Cour	ntry/PC	T	Application N	o Da		
				<u> </u>	te Filed	Priority Claimed
						[ ] Yes [ ] No [ ] Yes [ ] No [ ] Yes [ ] No
В.		reign ap <sub>l</sub> pplicatio		filed more than	12 mos. (6 mos fo	r design) prior to this
	Count Appli Filing	cation No	<b>)</b> :			
C.	US Pr	ovisiona	l applications filed	within 12 mont	hs prior to this U.	S. Application
	Appli Filing	cation No date:	):			
			PRIORIT	Y CLAIM (35 U.	S.C. §120)	
or PC and, in prior a §112, applic would occurr	I internationsofar as application (nation (nation) (natio	ational aps the subjicon(s) in whedge to amely, in the period and	pplication(s) designed matter of each of the manner provided the duty to disclosure or tant in deciding the priding date of the priding date of the pridect matter of the pridec	nating the United of the claims of the led by the first period in the first period there is substant whether to allow	States of America is application is no paragraph of Title nat is material to ial likelihood tha the application to	nited States application(s a that is/are listed below ot disclosed in that/those 35, United States Code the examination of this t a reasonable Examine o issue as a patent) which or PCT international filing
	[x]		h applications have pplications have be		VS:	
					Status_	
	<u>Serial</u>	<u>No</u> .	Filing Date	Patented	Pending	Abandoned

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#### POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Registration No. 28,041 Registration No. 25,610 Registration No. 33,217 Registration No. 25,226 Registration No. 37,165 Registration No. 35,412 Registration No. 37,771 Registration No. 25,436
Registration No. 25,436 Registration No. 30,922

Send correspondence to:

Direct telephone calls to:

Patent Counsel, MS/2061 Legal Affairs Dept. Applied Materials, Inc. P. O. Box 450A Santa Clara, CA 95052. Robert W. Mulcahy

Phone# (408) 563-2726

#### DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or first inventor: Matthew J. Jolley	111
Inventor's signature:	Date: 11, 60
Residence: 15170 NW Perimeter Drive, Beaverson, OR 97000	() 0'
Post Office Address: 15170 NW Perimeter Drive, Beaverton, OR 970	06
Country of Citizenship: U.S.A.	
Full name of second inventor: Asher Klatchko	
Inventor's signature:	Date:
Residence: 4324 28 <sup>th</sup> Avenue, Portland, OR 97202	
Post Office Address: 4324 28th Avenue, Portland, OR 97202	
Country of Citizenship: ISRAEL	

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Full name of thin	rd inventor:	Robert Marc Sills		
Inventor's signati	are:_		Date:	
Residence:	18431 Joseph Drive	e, Castro Valley, CA 94546		
Post Office Addr	ress: 18431 Jose	eph Drive, Castro Valley, CA	94546	
Counry of Citize	nship: U.S.A.			

(Declaration ends with this page)

#### COMBINED DECLARATION AND POWER OF ATTORNEY

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	[X]	No suc	ch applications hav	e been file	ed.		
	[]	Such a	pplications have b	een filed a	s follows:		
Α.			PCT application(s nd any priority cla				r design) prior to this
Coun	try/PC	Γ	Application I	<u>Vo</u>	Date l	<u>Filed</u>	Priority Claimed
							[ ] Yes [ ] No [ ] Yes [ ] No [ ] Yes [ ] No
В.		reign ap pplicatio		, filed mo	re than 12	mos. (6 mos for	design) prior to this
	Count Applic Filing	ation No	o:				
C.	US Pro	ovisiona	l applications file	d within 1	2 months	prior to this U.S	. Application
	Applic Filing	cation No date:	<b>)</b> :				
			PRIORI	TY CLAIN	м (35 U.S.C	C. §120)	
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	Ĺĵ		LT.			Chahra	
	Serial :	No.	Filing Date	Pa	tented	Status Pending	Abandoned

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Michael L. Sherrard	Registration No. 28,041
Peter J. Sgarbossa	Registration No. 25,610
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Joseph Bach	Registration No. 37,771
Robert W. Mulcahy	Registration No. 25,436
Alfred A. Equitz	Registration No. 30,922

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Full name of sole or first inventor: Matthew J. Jolley	
Inventor's signature:	Date:
Residence: 15170 NW Perimeter Drive, Beaverton, OR 97006	
Post Office Address: 15170 NW Perimeter Drive, Beaverton, OR	97006
Country of Citizenship: U.S.A.	
Full name of second inventor:  Inventor's signature:	Date: June 25, 2001
Residence: 4324 28th Avenue, Portland, OR 97202	
Post Office Address: 4324 28th Avenue, Portland, OR 97202	
Country of Citizenship: ISPAEL () SA (A.K.)	

10 De 22

Full name of thir	d inventor:	Robert Marc Sills		
Inventor's signati	ıre:		Date:	
Residence:	18431 Joseph Drive	, Castro Valley, CA 94546		
Post Office Addr	ess: 18431 Jose	eph Drive, Castro Valley, CA 9454	16	
Country of Citizen	nship: U.S.A.			

(Declaration ends with this page)

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Coun	try/PCI	<u>[</u>	Application N	<u>o</u>	Date Fil	<u>ed</u>	Priority	Claimed
							[] Yes	[ ] No [ ] No [ ] No
В.		eign app plicatio	olication(s), if any, n	filed more t	than 12 m	os. (6 mos fo	or design) pr	rior to this
	Counts Applic Filing o	ation No	):					
C.	US Provisional applications filed within 12 months prior to this U.S. Application							
	Applic Filing o	ation No date:	):					
			PRIORIT	Y CLAIM (	35 U.S.C.	§120)		
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	[x]		h applications have pplications have be		ollows:			
			•			Status		
	Serial I	<u>No</u> .	Filing Date	Pater	ited	Pending		Abandoned

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Post Office Address: 15170 NW	Perimeter Drive, Beaverton, OR 97006	
Country of Citizenship: U.S.A.		
Full name of second inventor:	Asher Klatchko	
Inventor's signature:	Date:	
Residence: 4324 28th Avenue,		
Post Office Address: 4324 28th	Avenue, Portland, OR 97202	

Full name of third inventor:

Robert Marc Sills

Inventor's signature:

Date: June 25, 2001

Residence:

18431 Joseph Drive, Castro Valley, CA 94546

Post Office Address:

18431 Joseph Drive, Castro Valley, CA 94546

County of Citizenship: U.S.A.

(Declaration ends with this page)